

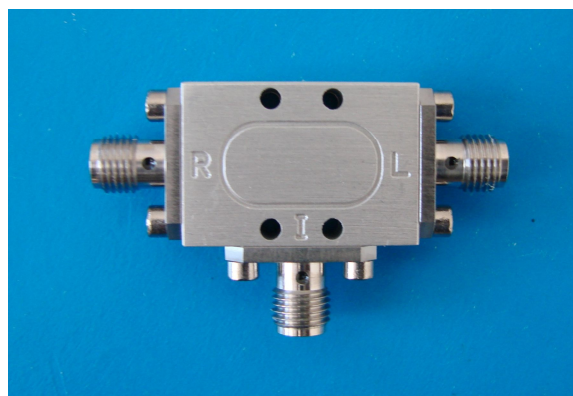
## Level 13

## 7-14GHz Frequency Mixer

### Features

- LO/RF: 7–14GHz
- IF: DC–5GHz
- LO Level: +13dBm
- Conversion Loss: 8dB typ.
- RF Input: Up to +11dBm
- Input IP3: +22dBm
- SMA Female All Ports

### Picture



### Description

GXR-5 is a passive double balanced mixer with 7 to 14GHz at RF/LO port and DC to 5GHz at IF port. The mixer operates with LO drive level range from +10dBm to +16dBm.

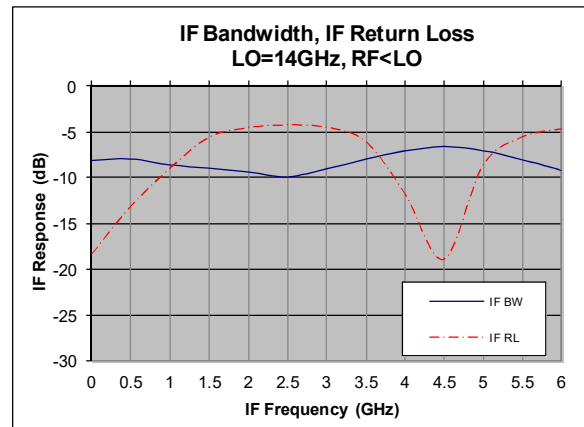
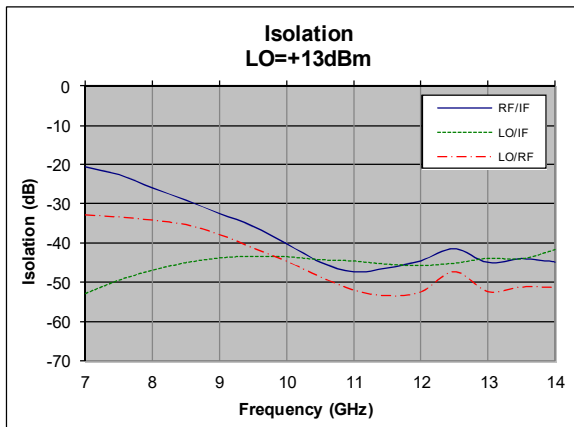
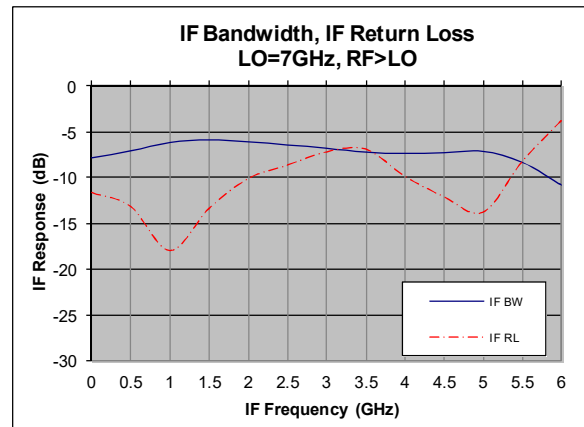
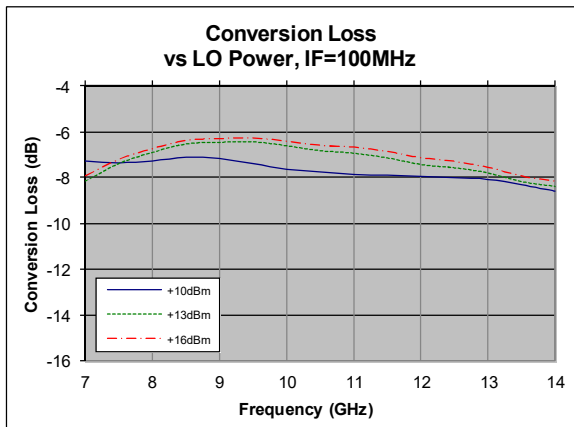
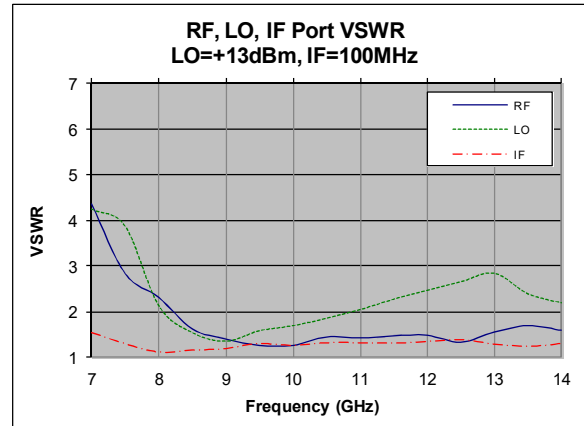
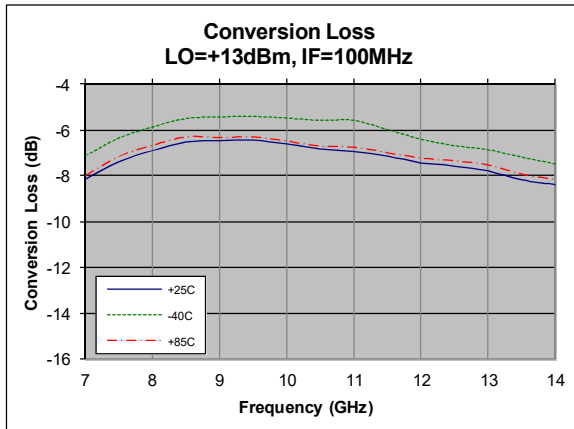
### Electrical Specifications @ +25 °C, IF=100MHz, LO=+13dBm, 50 Ω

Parameter		Unit	Minimum	Typical	Maximum
Frequency Range	LO/RF	GHz	7		14
	IF	GHz	DC		5
Conversion Loss	LO/RF: 7-11GHz	dB		7.5	10
	LO/RF: 11-14GHz	dB		8.5	10.5
LO-RF Isolation	LO/RF: 7-11GHz	dB	40	50	
	LO/RF: 11-14GHz	dB	35	45	
LO-IF Isolation	LO/RF: 7-11GHz	dB	28	34	
	LO/RF: 11-14GHz	dB	30	36	
RF-IF Isolation	LO/RF: 7-11GHz	dB	15	22	
	LO/RF: 11-14GHz	dB	25	30	
RF Input P <sub>1dB</sub>	LO/RF: 7-11GHz	dBm		+10	
	LO/RF: 11-14GHz	dBm		+11.5	
Input IP3	LO/RF: 7-11GHz	dBm		+18	
	LO/RF: 11-14GHz	dBm		+22	

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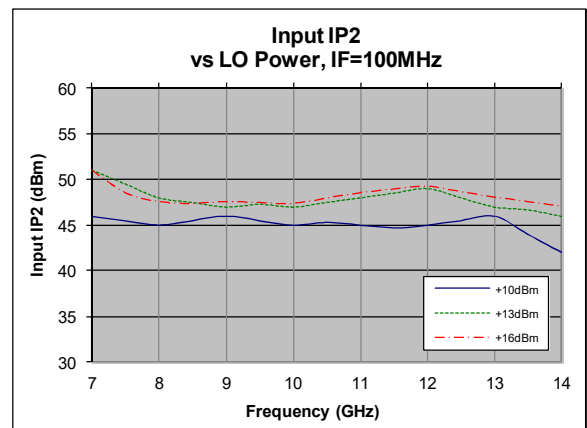
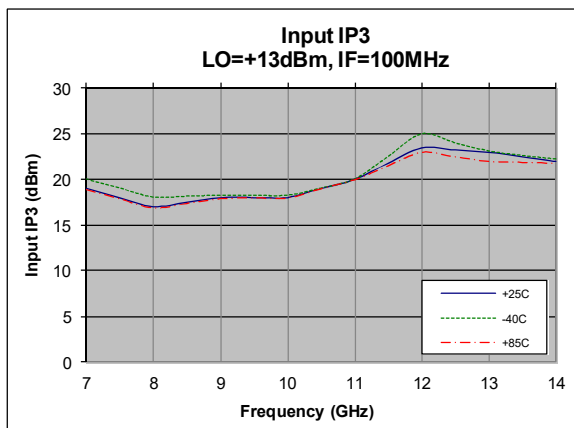
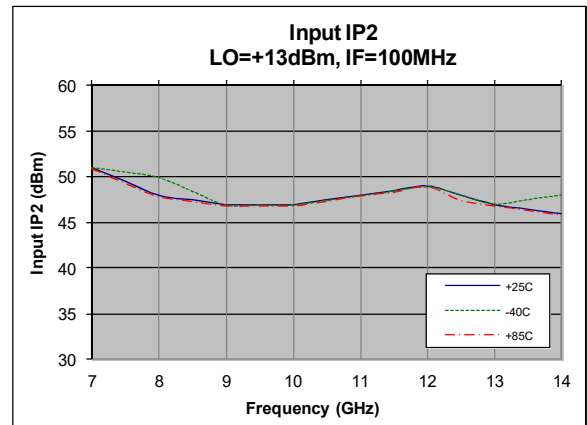
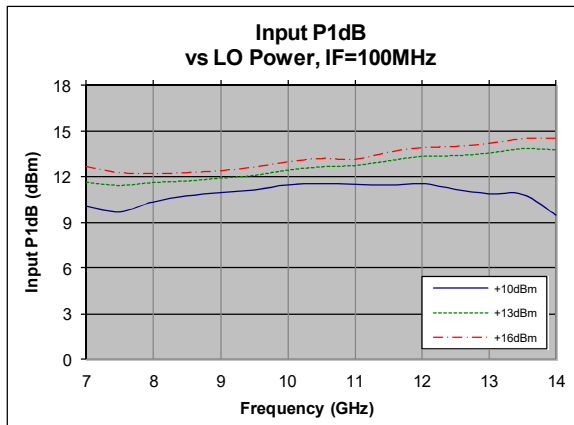
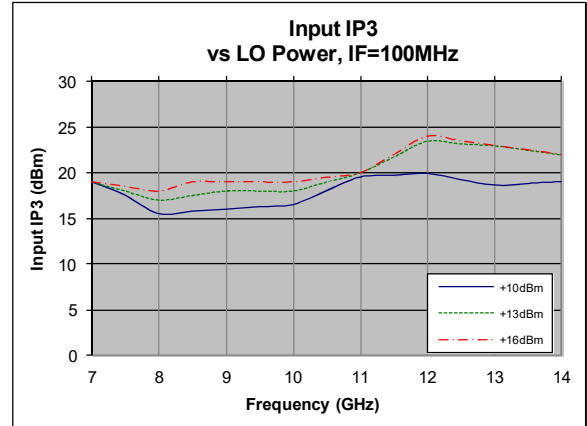
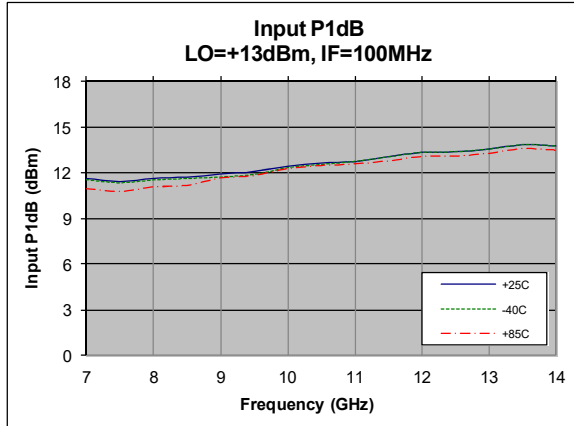
### Typical Performance



## Level 13

## 7-14GHz Frequency Mixer

### Typical Performance



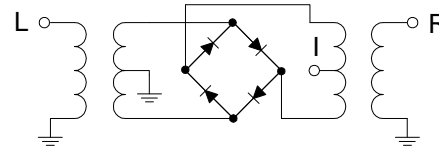
**Level 13**

**7-14GHz Frequency Mixer**

**Absolute Maximum Ratings**

Parameter	Absolute Maximum
RF Power	+25.5dBm
LO Driver	+25dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

**Schematic**



**Outline**

